

What is claimed is:

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 5 1. An adhesive tape provided on one side with a self-adhesive composition and comprising a backing material comprising a polyester film coated with a crosslinked epoxy resin.

10 2. The adhesive tape as claimed in claim 1, wherein the crosslinked epoxy resin layer is prepared using liquid, solvent-free epoxy resins based on bisphenol A, based on bisphenol F or bisphenol A/F, reactively diluted or plasticized epoxy resins, polyfunctional novolak glycidyl ether resins, aliphatic or cycloaliphatic epoxy resins and mixtures of said epoxy resins.

15 3. The adhesive tape as claimed in claims 1 and 2, wherein curing agents used for the epoxy resins comprise formulated polyethers/polyamines, nonformulated aliphatic polyamines, araliphatic polyamines, cycloaliphatic polyamines, aromatic amine curing agents, modified polyamines, polyamidoamines, polyaminoimidazoline, polyether amines, formulated adducts and mixtures of said amines.

20 4. The adhesive tape as claimed in any of claims 1 to 3, wherein the crosslinked epoxy resin comprises fillers, plasticizers and, if desired, auxiliaries and additives as further formulating constituents.

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 25 5. The adhesive tape as claimed in any of claims 1 to 4, wherein on the reverse of the crosslinked epoxy resin there is a release coating.

6. The adhesive tape as claimed in at least one of the preceding claims, wherein the self-adhesive composition has the following makeup:

30 ethylene from 10 to 30, with particular preference from 10 to 15% by weight

vinyl acetate from 20 to 55, with particular preference from 30 to 35% by weight

35 acrylic ester from 30 to 69, with particular preference from 50 to 60% by weight

acrylamide from 0 to 8, with particular preference 0.5% by weight.

7. The adhesive tape as claimed in at least one of the preceding claims, wherein the self-adhesive composition has a thickness of from 15 to 40 μm .

8. The use of an adhesive tape as claimed in at least one of the preceding claims for masking window flanges.

5 9. A process for producing an adhesive tape as claimed in at least one of the preceding claims, which comprises applying the mixed starting components of the epoxy resin during their chemical reaction phase directly on the polyester film.

10 10. The process as claimed in claim 9, wherein the polyester film is provided with the self-adhesive composition prior to coating with the crosslinked epoxy resin opposite the side to be coated with epoxy resin.

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